

## Coast Guard, DOT

## § 160.176-4

aids that are free of defects may be sold as Coast Guard approved.

[CGD 84-069b, 51 FR 19343, May 29, 1986; 51 FR 20650, June 6, 1986]

### Subpart 160.176—Inflatable Lifejackets

SOURCE: CGD 78-174b, 54 FR 50320, Dec. 5, 1989, unless otherwise noted.

#### § 160.176-1 Scope.

(a) This subpart contains structural and performance standards and procedures for approval of inflatable lifejackets, as well as requirements for associated manuals, servicing programs, and shore-side service facilities.

(b) Other regulations in this chapter provide that inflatable lifejackets must be:

(1) Serviced annually at designated servicing facilities; and

(2) Maintained in accordance with their user manuals.

(c) Inflatable lifejackets approved under this subpart—

(1) Rely entirely upon inflation for buoyancy;

(2) Meet the requirements for lifejackets in the 1983 Amendments to the International Convention for the Safety of Life at Sea, 1974 (SOLAS 74/83);

(3) Have performance equivalent to Type I Personal Flotation Devices (PFD's) with any one chamber deflated; and

(4) Are designed to be worn by adults.

#### § 160.176-2 Application.

(a) Inflatable lifejackets approved under this subpart may be used to meet carriage requirements for Type I PFD's only on:

(1) Uninspected submersible vessels; and

(2) Inspected vessels for which a servicing program has been approved by the Commandant.

(b) [Reserved]

#### § 160.176-3 Definitions.

(a) *Commandant* means the Chief of the Lifesaving and Fire Safety Division, Marine Safety and Environmental Protection. Address: Commandant (G-MSE-4), U.S. Coast Guard Head-

quarters, 2100 Second St. SW., Washington, DC 20593-0001.

(b) *First quality workmanship* means construction which is free from any defect materially affecting appearance or serviceability.

(c) *Functional deterioration* means—

(1) Damage such as deformation in hardware or a rip, tear, or loose stitches;

(2) Decline in any performance characteristic; or

(3) Any other change making the lifejacket unfit for use.

(d) *Functional residual capacity* (FRC) means the amount of lung volume a person has remaining at the bottom of the normal breathing cycle when at rest.

(e) *Inflation medium* means any solid, liquid, or gas, that, when activated, provides inflation for buoyancy.

(f) *Inspector* means an independent laboratory representative assigned to perform the duties described in § 160.176-15 of this subpart.

(g) *PFD* means personal flotation device as defined in 33 CFR 175.13.

(h) *Reference vest* means a model AK-1 PFD meeting subpart 160.047 of this part, except that, in lieu of the weight and displacement values prescribed in Tables 160.047-4(c)(2) and § 160.047-4(c)(4), each front insert must have a weight of kapok of at least 8.25 oz. and a volume displacement of  $9.0 \pm 0.25$  lb., and the back insert must have a weight of kapok of at least 5.5 oz. and a volume displacement of  $6.0 \pm 0.25$  lb. To achieve the specified volume displacement, front insert envelopes may be larger than the dimensions prescribed by § 160.047-1(b).

(i) [Reserved]

(j) *Second stage donning* means adjustments or steps necessary to make a lifejacket provide its intended flotation characteristics after the device has been properly donned and then inflated.

[CGD 78-174b, 54 FR 50320, Dec. 5, 1989, as amended by CGD 95-072, 60 FR 50466, Sept. 29, 1995; CGD 96-041, 61 FR 50733, Sept. 27, 1996]

#### § 160.176-4 Incorporation by reference.

(a) Certain materials are incorporated by reference into this subpart with the approval of the Director of the Federal Register in accordance with 5

U.S.C. 552(a). To enforce any edition other than the one listed in paragraph (b) of this section, notice of the change must be published in the FEDERAL REGISTER and the material made available to the public. All approved material is on file at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC and at the U.S. Coast Guard, Lifesaving and Fire Safety Division (G-MSE-4), 2100 Second Street, SW., Washington, DC 20593-0001, and is available from the sources indicated in paragraph (b) of this section.

(b) The materials approved for incorporation by reference in this subpart, and the sections affected are:

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)  
100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM B 177-73/79 Standard Method of Salt Spray (Fog) Testing, 1973—160.176-8; 160.176-13

ASTM D 751-79 Standard Methods of Testing Coated Fabrics, 1979—160.176-13

ASTM D 975-81 Standard Specification for Diesel Fuel Oils, 1981—160.176-13

ASTM D 1434-75 Gas Transmission Rate of Plastic Film and Sheeting, 1975—160.176-13

FEDERAL AVIATION ADMINISTRATION TECHNICAL STANDARD ORDER  
*Policy and Procedure Br., AWS-110, Aircraft Engineering Division, Office of Airworthiness, 800 Independence Ave., SW., Washington, DC 20591*

TSO-C13d, Federal Aviation Administration Standard for Life Preservers, January 3, 1983—160.176-8

#### FEDERAL STANDARDS

*Naval Publications and Forms Center, Customer Service, Code 1052, 5801 Tabor Ave., Philadelphia, PA 19120*

In Federal Test Method Standard No. 191A (dated July 20, 1978) the following methods:

- (1) Method 5100, Strength and Elongation, Breaking of Woven Cloth; Grab Method—160.176-13
- (2) Method 5132, Strength of Cloth, Tearing; Falling-Pendulum Method—160.176-13
- (3) Method 5134, Strength of Cloth, Tearing; Tongue Method—160.176-13
- (4) Method 5804.1, Weathering Resistance of Cloth; Accelerated Weathering Method—160.176-8
- (5) Method 5762, Mildew Resistance of Textile Materials; Soil Burial Method—160.176-8

Federal Standard No. 751a, Stitches, Seams, and Stitching, January 25, 1965—160.176-9

#### MILITARY SPECIFICATIONS

*Naval Publications and Forms Center, Customer Service, Code 1052, 5801 Tabor Ave., Philadelphia, PA 19120*

MIL-L-24611—Life Preserver Support Package For Life Preserver, MK 4, dated May 18, 1982—160.176-8

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST) (FORMERLY NATIONAL BUREAU OF STANDARDS)

*C/O Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402*

Special Pub. 440, *Color: Universal Language and Dictionary of Names*; "The Universal Color Language" and "The Color Names Dictionary", 1976—160.176-9

UNDERWRITERS LABORATORIES (UL)

*Underwriters Laboratories, Inc., 12 Laboratory Drive, Research Triangle Park, NC 27709-3995, P.O. Box 13995, Research Triangle Park, NC 27709-3995*

UL 1191, "Components for Personal Flotation Devices", November 11, 1984—160.176-8; 160.176-13

[CGD 78-174b, 54 FR 50320, Dec. 5, 1989, as amended by CGD 95-072, 60 FR 50467, Sept. 29, 1995; CGD 96-041, 61 FR 50733, Sept. 27, 1996; CGD 97-057, 62 FR 51049, Sept. 30, 1997]

#### § 160.176-5 Approval procedures.

(a) *Modifications to general procedures.* Subpart 159.005 of this chapter contains the approval procedures. Those procedures must be followed, except as modified in this paragraph.

(1) Preapproval review under §§ 159.005-5 and 159.005-7 may be omitted if a similar design has already been approved.

(2) The information required under § 159.005-5(a)(2) (i) through (iii) of this chapter must be included in the application.

(3) The application must also include the following:

(i) The Type of performance (i.e. Type I or Type V) that the lifejacket is designed to provide.

(ii) Any special purpose(s) for which the lifejacket is designed and the vessel(s) or vessel type(s) on which its use is planned.

(iii) Buoyancy and torque values along with tolerances to be allowed in production. The Coast Guard normally will approve tolerances of up to  $\pm 10\%$  unless prototypes are tested at greater extremes or greater tolerances are otherwise justified.

(iv) The text of any optional marking to be provided in addition to required text.